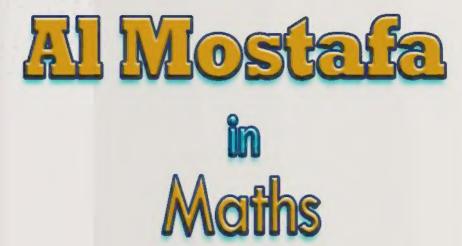
Primary







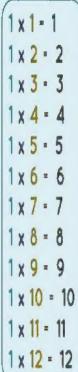


Mr. Mostafa Elkhateeb





Multiplication Tables and Charts



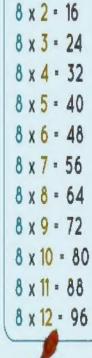
3	X	1=	3
3	X	2 -	6
3	X	3 -	9
3	X	4 :	12
3	X	5 -	15
3	X	6 :	18
3	X	7 :	21
3	X	8 :	24
3	X	9 .	27
3	X	10	- 30
3	X	11 :	33
3	X	12	- 36

5	X	1		5
5	X	2	L	10
5	X	3		15
5	X	4	=	20
5	X	5		25
5	X	6	z	30
5	X	7		35
5	X	8		40
5	X	9	=	45
5	X	10	1	50
5	X	11		55
5	X	12		60

_	6		1	
6	X	1		6
6	X	2	1	12
6	X	3	=	18
6	X	4	:	24
6	X	5	=	30
6	X	6	I	36
6	X	7		42
6	X	8	I	48
6	X	9	=	54
6	X	10)	- 60
6	X	11		66
6	X	12		72

7	X	2	=	14
7	X	3		21
7	X	4	=	28
7	X	5		35
7	X	6	2	42
7	X	7	:	49
7	X	8		56
7	X	9	=	63
7	X	10	0	70
7	X	11	=	77
7	X	12	×	84

7 x 1 = 7



8 x 1 = 8

1	Λ	-		IV
9	X	3	=	27
9	X	4		36
9	X	5		45
9	X	6	•	54
9	X	7	1	63
9	X	8	=	72
9	X	9		81
9	X	10	:	90
9	X	11	=	99
9	X	12		108

9 x 1 = 9

9 x 2 = 18

-			
10	X	=	10
10	X	2 =	20
10	X	3 =	30
10	X	4 =	40
10	X	5 -	50
10	X	6 =	60
10	X	7 =	70
10	X	8 =	80
10	X	9 =	90
10	X	10 -	100
10	X	11 =	110
10	X	12 -	120
-	_		

















Revision

fractions



Proper fraction

is fraction less than 1 (<1)

Ex:
$$\frac{3}{5}$$
, $\frac{5}{7}$, $\frac{7}{12}$, $\frac{9}{15}$

the numerator is less than the denominator

improper fraction

is fraction more than 1 (>1)

Ex:
$$\frac{13}{5}$$
, $\frac{9}{7}$, $\frac{17}{12}$, $\frac{9}{5}$

the numerator is more than the denominator

Mixed number

is consist of whole number and proper fraction

Ex:
$$2\frac{3}{5}$$
, $4\frac{5}{7}$, $5\frac{4}{6}$

Unite fraction

a fraction its numerator = 1

$$\frac{1}{3}$$
 , $\frac{1}{5}$, $\frac{1}{7}$, $\frac{1}{10}$

Equivalent fraction

$$\frac{3}{10} = \frac{30}{100} = \frac{300}{1000} = \dots$$

OPrime number :

it has only two factor 1 and itself

2, 3, 5, 7, 11, 13, 17, 19,.....

Ofactors of 15 is 1 , 3 ,5 and 15

prime factors of 15 is 3 and 5

1 is common factor of all number

is common multiple of all number

area of rectangle

= length × width or (L × W)

perimeter of rectangle

= $\{length + width\} \times 2 \text{ or } (L+W)X2$

⊙ area of square

= side length × itself or (SXS)

perimeter of square

= side length × 4 or (4 X S)

Example Convert in to mixed number :-

$$\frac{32}{6} = \dots$$

(1)
$$\frac{32}{6} = \dots$$
 (2) $\frac{24}{5} = \dots$

$$3) \frac{17}{4} = \dots$$

Exercise Convert in to mixed number :-

$$\bigcirc 1) \frac{15}{7} = \dots$$

(1)
$$\frac{15}{7} = \dots$$
 (2) $\frac{23}{5} = \dots$

$$3) \frac{19}{6} = \dots$$



Example convert in to improper fraction:

(1)
$$2\frac{3}{4} = \dots$$

(1)
$$2\frac{3}{4} = \dots$$
 (2) $3\frac{2}{5} = \dots$

$$(3)4\frac{1}{6} = \dots$$

Exercise convert in to improper fraction:

$$\bigcirc 1 5\frac{1}{4} = \dots$$

①
$$5\frac{1}{4} = \dots$$
 ② $2\frac{2}{3} = \dots$

$$37\frac{2}{5} = \dots$$

Example write in expanded form:

Exercise write in expanded form :

Example write in standard form:

$$(1) 60,000 + 2,000 + 600 + 30 + 7 = \dots$$

$$(2)400,000 + 20,000 + 800 + 6 = \dots$$

$$(3)$$
 30,000 + 8 =

Exercise write in standard form:

$$(1)$$
 20,000 + 5,000 + 100 + 30 =

$$(2)900,000 + 6,000 + 800 + 7 = \dots$$

$$(3)$$
 80,000 + 500 =

Example find the value of X

(1)
$$X - 324 = 426$$
, then $X = ...$

$$(2)$$
 564 +X = 827,then X =

Exercise find the value of X

(1)
$$X - 54 = 46$$
, then $X = ...$

(2)
$$231 + X = 400$$
, then $X = ...$

Example (> = , <)

Exercise oput the sign (> , = , <)



Unit 1

Lesson 1

Decimals to thousandths

Learn

- A decimal is a number that uses a decimal point as 563.174
- A decimal has one or more digits to the right of decimal point

The place Value and the value Chart



Place Value

Hundreds

Tens

Ones

3

Point

Tenths

Hundredths

Thousandths

The Value

500

60

0.1

0.07

0.004

Standard form: 563.174

We write the word and after the whole part

Word form: Five hundred sixty-three and one hundred seventy four thousandths

<u>Unit form</u>: 5 hundreds, 6 tens, 3 ones, 1 tenths, 7 hundredths, 4 thousandths

Example

Write in decimals:

①
$$\frac{3}{10} = \dots$$

②
$$\frac{23}{100} = \dots$$

$$\Im \frac{342}{1000} = \dots$$

①
$$\frac{3}{10} = \dots$$
 ② $\frac{23}{100} = \dots$ ③ $\frac{342}{1000} = \dots$ ④ $3\frac{7}{10} = \dots$

$$\bigcirc$$
 23 $\frac{5}{100} = \dots$

(5)
$$\frac{24}{10} = \dots$$
 (6) $\frac{67}{1000} = \dots$ (7) $23\frac{5}{100} = \dots$ (8) $\frac{319}{100} = \dots$

Exercise Write in decimals:

①
$$\frac{9}{10} = \dots$$

②
$$\frac{2}{100} = \dots$$

$$\Im \frac{7}{1000} = \dots$$

①
$$\frac{9}{10} = \dots$$
 ② $\frac{2}{100} = \dots$ ③ $\frac{7}{1000} = \dots$ ④ $4\frac{4}{10} = \dots$

$$\bigcirc$$
 6 $\frac{3}{100} = \dots$

(5)
$$\frac{15}{100} = \dots$$
 (6) $\frac{452}{1000} = \dots$ (7) $6\frac{3}{100} = \dots$ (8) $\frac{15}{1000} = \dots$

Al-Hostafa



Example Write in improper fraction:

① $3.6 = \dots$ ② $4.07 = \dots$ ③ $25.9 = \dots$ ④ $6.231 = \dots$

•Write the place value of the digit 5 in the following numbers:

4.56

2.345

0.754

5.32

54.8

520.64

Write the value of the digit 3 in the following numbers:

23.4

2.345

0.437

1.253

Complete

③ 3 thousandths =

Exercise 2

Choose the correct Answer:

① $2.07 = \dots$

 $\left[2\frac{7}{10}, 2\frac{7}{100}, 7\frac{2}{10}, 7\frac{2}{100}\right]$

② 0.18 =

③ The value of the digit 5 in 21.351 is = [5 , 0.05 , 0.005]

4 The value of the digit 2 in 42.035 is =

[2 , 0.2 , 0.02 , 0.002]

(5) $\frac{18}{10} = \dots$ in decimal

[0,018 , 0.18 , 10.8 , 1.8]

⑥ 8 Thousandths =

[0.008 , 0.08 , 0.8 , 8,000]

 \bigcirc 25 tenths =

[0.025, 0.25, 2.5, 25]

®sixteen Thousandths =

[16,000 , 1.6 , 0.16 , 0.016]

(9) Which digit in the tenths place in the number 14.07 [0, 4, 1, 7]

the place value of the digit 7 in the number 48,257 is

[thousands, tenths, hundredths, thousandths]

Al-Mestafa 1



Answer the following:

1	63.24
In standard form	
In word form:	

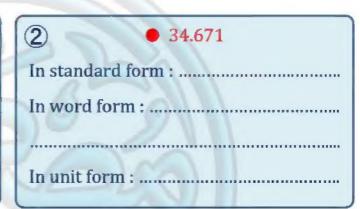
In unit form:

(2)	23.07
In stan	dard form:
In wor	d form :
In unit	form:

Exercise®

Answer the following:

5.284
In standard form :
In word form:
In unit form:



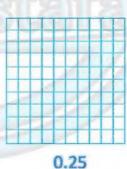
Example @

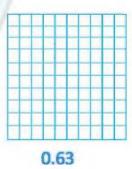
Shade:



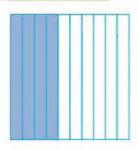


0.3

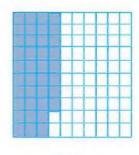


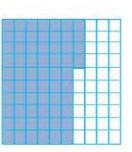


Exercise Write the decimal:









Home Work

1 Complete the following:



① 5.231..... (in expanded form)

②1.002 (in expanded form)

 $37 + 0.3 + 0.04 + 0.009 = \dots$ (in standard form)

40 + 0.8 + 0.07 = (in standard form)

⑤ Two and forty one thousandths =

© seven hundred and seven hundredths =

7 ninety six and eight tenth = 8 24 hundredths

(2) Choose the correct answer:

①6 and 5 tenths = [0.65, 5.6, 6.5, 6.05]

② $0.48 = \dots$ $\left[\frac{48}{10} , 4\frac{8}{10} , \frac{48}{100} , 1\frac{48}{100} \right]$

3 The value of the digit 3 in 21.351 is = [3 , 0.3 , 0.03]

6 49 Thousandths = [0.49 , 4.09 , 0.049 , 4.009]

The place value of the digit 4 in the number 18,243 is

[thousands , tenths , hundredths , thousandths]



Lessons 2&3

Place value shuffle

Composing and decomposing decimals

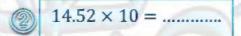
Learn Place value shuffle

• if a whole number or a decimals is multiplied by [10, 100], then each digit From this number moves to left [one, two] spot and The value of each digit increases [10, 100] times.

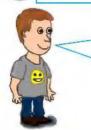
	Н	T	0	Tenths	hundredths	thousandths
	/	2	5	8	7	4
× 10	2	5	8	7 4	4	

Example Complete the following:





Exercise ①



6.5 X 10

= 65

The value of a whole number ___increasewhen multiplying by 10
The value of 6 __increase __ when multiplying by 10 from ...6. To ...60..
The value of 5 __increase .. when multiplying by 10 from ...0.5.. To ...5..



Learn Place value shuffle

if a whole number or a decimals is divisible by [10, 100], then each digit
 From this number moves to right [one, two] spot on the place value chart and
 The value of each digit decreases [10, 100] times.

	Н	T	0	*	Tenths	hundredths	thousandths
		8	4	/ .	9	3	
÷ 10			8		4	9	3

Example Complete the following:

Exercise ①



$$= 34.5$$

The value of a whole numberdecrease.....when dividing by 10

The value of 3 ...decrease... when dividing by 10 from ...300.... To ...30.....

The value of 4 ...decrease... when dividing by 10 from ...40.... To ...4.....

The value of 5 __decrease... when dividing by 10 from ...5.... To ...0.5.....



- **©Composing:** decimals means [put together]
- Decomposing: decimals means [broken a part]
- you can decompose 843 .572 in different ways :

1st way 843.572 = 800+40+3+0.5+0.07+0.002 2nd way 843.572 = 843+0.5+0.07+0.002 3¹⁰ way 843.572 = 843+0.572

Example Compose each of the following:

 $\bigcirc \boxed{4000 + 80 + 7 + 0.1 + 0.002 = \dots}$

3

 $420 + 0.2 + 0.07 + 0.009 = \dots$

60 + 8 + 0.6 + 0.01 + 0.003 =

 $600 + 7 + 0.2 + 0.09 + 0.005 = \dots$

(5) 700 + 0.4 + 0.009 =

 $0.3 + 0.008 + 0.05 = \dots$

90 + 0.9 + 0.009 =

3

 $0.7 + 0.006 + 0.03 = \dots$

Exercise Compose each of the following:

 $541 + 0.6 + 0.004 = \dots$

 $\boxed{\bigcirc} 50 + 1 + 0.6 + 0.02 + 0.009 = \dots$

 $400 + 7 + 0.09 + 0.001 = \dots$

6 400 + 0.4 + 0.004 =

0

 $0.6 + 0.007 + 0.03 = \dots$

70 + 0.01 + 0.002=

(8)

 $0.01 + 0.001 + 0.1 = \dots$

Example Decompose the following numerals using expanded form:

(1) 640.078 =

(2) Twenty three and forty two thousandths =

(3) 65.12 =

(4) Ninety one and six hundredths =

(5) 3000.428 =

6 Ninety two thousandths =

Exercise Complete each of the following:

(1) 4.208 = + 0.2 + 0.008 (4) 57 thousandths = 0.007 +

(2) = 4 + 0.005 + 0.3 (3) 283 thousandths = + 0.2 + 0.08

(5) seventy and eight thousandths =+

Exercise Match the cards that have the same numeral .

 $78.42 \div 10$

700 + 84 + 0.2

 78.42×10

7000+800+40+2

7842 hundredths

78,000 + 400 +20

7842 tens

7 + 0.842

 78.42×10

70 + 8 + 0.4 + 0.02

Home Work

(1) choose the correct answer:



a- 4.41

b) 4.041

c) 410.4

d) 4.401

2) The value of the digit in tenths place in the number 7.024 is

a- 0.1

b- 0

c - 0.004

d- 0.02

3) Place value of the digit 4 in the number 27.614 is

a- Tenths

b- hundredths

c-thousandths

d- ones

4) Which number of the following has 3 hundredths, 7 ones, 2 thousandths?

a- 0.732

b- 3.72

c-7.032

d-3.702

5) Seventeen thousandths =

a- 170

b- 0.17

c- 0.017

d- 1.07

6) What is the standard form for: 60 + 3 + 0.5 + 0.004?

a- 63.54

b- 63,054

c-63.504

d-6.354

7) 215 hundredths = [in expanded form]

a-200+10+5 b-20+1+0.5 c-2+0.1+0.05

d - 200 + 0.1 + 0.05

8) $72.43 \times 10 = \dots$

a- 7.243

b-72.34

c- 7243

d- 724.3

9) $43.12 \div 10 = \dots$

4.312

b-431.2

c-4312

d-43.21

Complete

- (1)12 hundredths = 10 +
- (2) = 600 + 3 + 0.3 + 0.006

(3) $45.12 \times 10 = \dots$

(4) $394.6 \div 100 = \dots$

(5) 43.67 x = 4367

(6) 493.7 ÷ = 49.37

Mil Mostofs

Learn to compare between two decimals begin with:

1st: Compare the whole number 2nd: compare tenths

3. compare hundredths

: compare thousandths

Example Circle the greater:

① 0.6 or 1.2

② 0.723 or 0.8 ③ 4.5 or 4.18

④ 70 or 69.34

(5) 4.1 or 4.001 (6) 0.234 or 0.235

Example @ put the sign (> , = , <)

50.009

50.100

2.01

2.099

45.1 10. 10.011 (3) 45.057

34.5

34.500

4.904

4 + 0.9 + 0.004

Exercise Choose the correct answer:

① 3.24 3.239

 $\{>,<,=,$ ≤ 1

②19 hundredths19 thousandths $[>, <, =, \leq]$

Which is the greater than 1.72?

[1.27 , 1.07 , 1.8 , 1.072]

⑤Which of the following is true?

a - 0.532 > 0.537

b - 0.1 + 3 < 1.3

C - 1.019 > 1.1

 $d - \frac{18}{10} = 1.8$

Mile Miles and and

Home Work

30

① Compare the decimals using the symbols [> , = , <]

0.3 0.123

0.013

0.031

45.057 45.100 50.009 50.100

0.10 0.480 0.100

0.480

2.197 2.2 87.3 87.03

0.030 0.03 1.7 2.04

Exercise Choose the correct answer:

① 2.24 3.238

[>, < , ≤ 1

215 hundredths 15 thousandths

 \leq]

3Which is the greater than 3.75?

[3.25 , 3.05 , 3.7 , 3.8

⑤Which of the following is true?

a - 0.357 > 0.537

b-0.357 > 0.375

C - 0.573 > 0.537

d-0.357 > 0.537



Mil Mostefa

Lesson 5

rounding decimals

Learn

1st way Midpoint strategy

Example Use midpoint strategy to round each of the following:

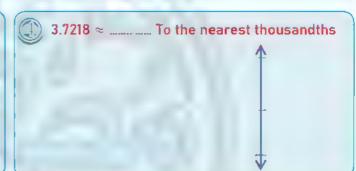
19.7 ≈To the nearest whole number



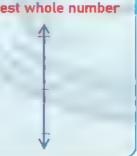
3.54 \approx To the nearest tenths

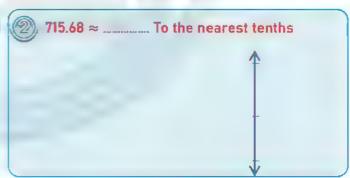
(3) 6.839 pprox To the nearest hundredths



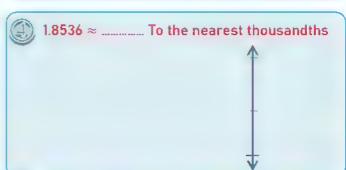


Exercise Use midpoint strategy to round each of the following:





 $0.852\approx.....$ To the nearest hundredths



2nd Way rounding rule strategy

Example Use place value strategy to round each of the following:

① $0.7 \approx$ (to the nearest Whole number)

② 5.49 ≈ (to the nearest tenths)

 \bigcirc 0.874 \approx (to the nearest hundredths)

 $48.090 \approx$ (to the nearest tenths)

⑤58.936 ≈ (to the nearest ten hundredths)

6 2.7365 ≈ (to the nearest thousandths)

 $(7)69.4657 \approx \dots$ (to the nearest thousandths)

Exercise Use place value strategy to round each of the following:

Round to the nearest whole number.

a- 0.7 ≈ b- 10.18 ≈..... C- 24.58 ≈

f- 0.006 ≈ e- 12.287 ≈ d- 4.87 ≈

Round to the nearest tenths.

a-13.75 ≈ b-83.914 ≈ c- 90.09 ≈

d- 0.208 ≈ e- 43.95 ≈ f- 0.07 ≈

Round to the nearest hundredth:

a- 76.514 ≈ b- 0.737 ≈ c- 0.996 ≈

d- 5.548 ≈ e- 6.342 ≈ f- 1.681 ≈

round to the nearest thousandth:

a- 2.4538 ≈ b- 0.4532 ≈ c- 1.7645 ≈

d- 8.4397 ≈ f- 0.0049 ≈ E- 4.7801 ≈

Home Work



(1) Complete:

 $\bigcirc 4.478 \approx \dots$ To the nearest tenths.

 $(20.5219 \approx \dots$ to the nearest thousandths.

 $34.23 \approx \dots$ To the nearest whole number.

 $46.452 \approx \dots$ to the nearest hundredths.

(2) Choose the correct answer:

① Round 8.099 to the nearest tenths ≈

a-7.00 b-8.08 _ c-8.090 d-8.1

② Round 2.5698 to the nearest thousandths ≈

a- 2.569 b- 2.560 c- 2.57 d- 2.568

③ $42.81 \approx$ to the nearest whole number

a- 42.8 b- 43 c- 42 d- 44

4 160.745 \approx to the nearest tenths

a- 160.7 b- 160.8 c- 161.0 d- 160.75

(5) Which number could be rounded to 0.58

a- 0.589 b- 0.57 c- 0.59 d- 0.577

ⓑ 49.386 ≈ 49.4 to the nearest

a- whole number b- tenths c- hundredths d- thousandths

(3) Mazen is a planning a trip from Cairo to Wadi Elryan . he will travel 147.72 kilometers . round the distance to the nearest tenths?

Lesson 6

Estimating decimals sum

Estimation is a way to get a number that is close to the actual answer but not exact

1st Front - end estimation strategy

Example Estimate each of the following sums by using front - end estimation

Exercise Estimate each of the following sums by using front - end estimation

 2^{nd} Benchmark decimals 0, $\frac{1}{2}$ and 1

Example Estimate each of the following sums by using benchmark

3<u>rd Rounding strategy</u>

Example Estimate each of the following sums by using rounding

⑤58.936 + 41.643 ≈ (to the nearest ten hundredths)

62,736.5 + 4,235.6 \approx (to the nearest thousands)

⑦169.46 + 356.47≈ (to the nearest thousandths)

Exercise Estimate each of the following sums by using benchmark

① 2.61 + 2.22 = + ② 3.159 + 12.035 = + =

(5) 13.9 + 3.14 = + = (6) 37.36 + 3.44 = + =

Exercise Estimate each of the following sums by using benchmark

 $47.52 + 2.032 = \dots + \dots = \dots$ (to the nearest tenths)

② 7.123 + 12.007 = + (to the nearest hundredths)

3 52.4 + 3.65 = + (to the nearest whole number)

1 Estimate each of the following sums by using front - end estimation

$$8.45 + 15.3 = \dots + \dots = \dots$$

(2) Estimate each of the following sums by using benchmark







$$17.36 + 3.94 = \dots + \dots = \dots$$

(3) Estimate each of the following sums by using benchmark

(to the nearest tenths)

(to the nearest hundredths)

(to the nearest whole number)

Lesson 7

Adding decimals

Learn To Add two decimals begin with:

1st: Add decimals in thousandths place

2nd: Add decimals in hundredths place

3.4 : Add decimals in tenths place

: Add whole part left the point

Example Add:

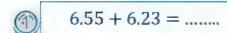
$$0.005 + 0.5$$

Exercise Add:

Home Work

20

① Add:







(2) Choose the correct answer:

3) The estimation of
$$49.872 + 50.011$$
 is

4)
$$0.03 + 0.003 = \dots$$



Subtracting decimals

Example Estimate:

Exercise @ Estimate:

Example Find the result:

Exercise @ Find the result:

Answer:

• a man bought some goods for 306.7 L.E. and sold them for 366.95 L.E. find The profit?

• Ali has 24.75 L.E. and Ahmed has 15.25 L.E. find how much money Ali and Ahmed have together?

● Ibrahim had 53.75 L.E. he spent 35.05 L.E. find the remainder with him?

To think Complete:



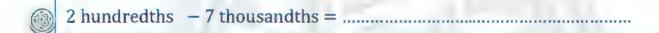
Home Work

20

① Subtract:

$$8.55 - 6.23 = \dots$$

$$\bigcirc \boxed{19.008 - 15.02 = \dots}$$







(2) Choose the correct answer:

- 1) $4.7 3.8 = \dots$
 - b- 7.15

- b-8.5
- c- 1.1

- d-7.1
- 2) 4 hundredths -35 thousandths = thousandths
 - b- 0.05

- b- 0.005
- c- 15

d-0.015

- 3) The estimation of 49.872 38.752 is
- b- 9

- b- 100
- c- 101

d- 12

- 4) $0.03 0.003 = \dots$
- b- 0

b-0.66

c-0.33

d- 0.027

- 5) 71 hundredths 1 hundredths =tenths
 - b- 7

b- 72

c-80

d-8

Lessons 1-3

expression, equation and variables Variables in Equation

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Learn

mathematical expression

is statement contains numbers or numbers and symbol Separated by one or more operations as [+,-,× and ÷] and does not contain the equal sign [=]

Ex: 34 + 86 and 56 + m

Equation

is mathematical expression contains the equal sign [=]

$$EX: 24.8 - k = 17.5$$

$$4.2 + 1.5 = x$$

equation **or** expression **or** neither

[equation or expression or neither]

[equation **or** expression **or** neither]

$$4.2 + 1.5 = 8.9 - 3.2$$

Example Choose equation, expression or neither:

- ① 3.6 + 1.2 = x
- 214.78 3.4
- $314 \times 7 = M$
- ④ 3.4 + L
- (5) 15.8 + 7.13

[equation or expression or neither]

7.13 [equation or expression or neither]

(6) Amir had 3.4 kg of apples and 2.7 kg of figs [equation or expression or neither]

Example Write an equation

- ① 12.5 plus a number equal 15
- ② subtract a number from 5.63 equal 3.154
- 3 Ahmed 52 L.E. and his sister has 84 L.E. the equation which represent the total amount is

Learn

Variables in Equations

Solving equation means finding the variable in the equation.

Example Solv the following equations:

a =

b =

③ 12.7 + 6.05 = c

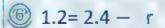
c =

d =



⑤ m − 4.25 = 11.75

m =





? 3.64 - h = 8.4

h =



(8) 7.45 - 3.42 = k

k =



Exercise Solv the following equations:

9 f + 10.5 = 16.8

f =



2 8.4 - n = 3.25

n =





y =



(15.6 + e = 28.37)

e =



Example Solve the equation:

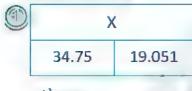
①
$$8.23 + p = 10.24$$
 then $p =$

②
$$t - 2.45 = 0.26$$
 then $t = \dots$

$$315 - x = 8.23$$
 then $x = ...$

$$4 v + 45.8 = 64.9$$
 then $v = ...$

EXERCISE Find the value of variable in the following bar models:



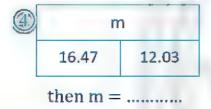
then $x = \dots$

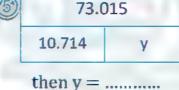
2	78.	514
	а	29.125

then a =

3	35.7						
	h	18.07					

then $h = \dots$



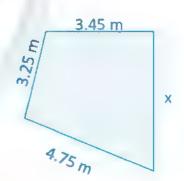


6	85.02							
	С	53.63						

then $y = \dots$

To think if the perimeter of this shape is 16.70 m

..... What does x equal?



Ola needed 10 meters of wood to build a garden bed . She found 3.5 m in here garage how many more meters of wood does she need

For the bed?.....

the weight of Mariam is 35.235 kg. and the weight of Lucy is 42.012 kg. What is there weight together?



Home Work

12

1) Choose the correct answer:

① If
$$p + 3.562 = 4.213$$
, then $p =$

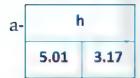
MATERIAL CONTRACTOR

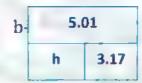
②If
$$3.462 - x = 1.451$$
, then $x =$

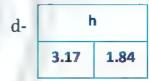
$$\Im$$
 If $m - 3.459 = 4.213$, then $m = \dots$

\bigcirc from opposite bar model the value of $y = \dots$

⑤Which of the following bar model is suitable the equation 5.01 - h = 3.17?







2) Solve each of the following equation:

①
$$2.342 + n = 3.418$$

②
$$w - 4.143 = 6.150$$

③
$$5.235 + p = 10.462$$

$$\textcircled{4}$$
 c – 3.425 = 2.520

⑤
$$23.024 + k = 25.130$$

3 In the opposite figure, the perimeter of the shape

Is 10.177 cm then the value of $x = \dots$:





Prime factorization

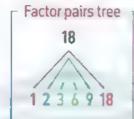
Learn

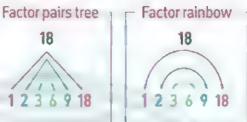
Prime factorization

Remember Find all factors of 18



But not all of these numbers are prime numbers!



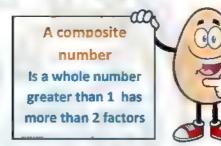


	Factor T-chart 18								
1	18								
2	9								
)	٤								

, then the factors of 18 are: 1, 2, 3, 6, 9 and 18.



A prime number is a whole number has only 2 different factors 1 and itself



A prime number

	2	3	!	5	7	11	13	17	19	23	29	31	37	
41	4	3	47	53	59	9 6	1 6	7 71	. 73	79	83	89	97	,

Note

- 1 is neither prime nor composite because it has only one factor
- 2 is the smallest prime number
- All prime numbers are odd except 2



Every composite number can be written as product of prime number . this product

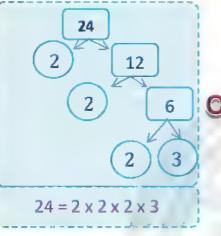
The prime factorization of a number.

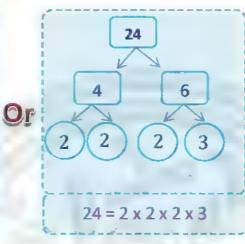


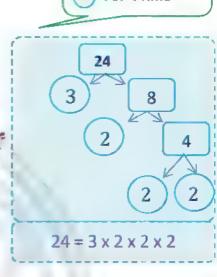
Find the prime factorization for 24

For Composite

For Prime







Example Factor

Factorize to a prime factors:

12

30

28

30 =

28 =

16

45

40

45 = ..

40 =

Example@

Complete

- ① 2,5,7 are the prime factors of
- ② 3,3,3 are the prime factors of
- ③ 2,2,5 are the prime factors of

Exercise 1

Factorize to its prime factor:

15

18

36

9

16

63

16=

45 =

40 =

Exercise Complete

- 1 2 , 2 , 2 are the prime factors of
- ② 2,3,3 are the prime factors of
- 3 3, 3, 5 are the prime factors of

1 Complete

① 2,2,7 are the prime factors of

② 2,3,5 are the prime factors of

③ 2,5,7 are the prime factors of

2 Factorize to its prime factor:

8 32 10

8 - 10 -

48 56



Greatest common factor (GCF)

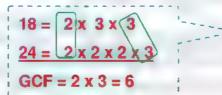
How can you find greatest common factor of 18 and 24 [GCF]

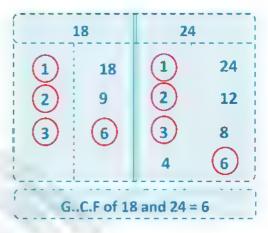
First way using listing method:

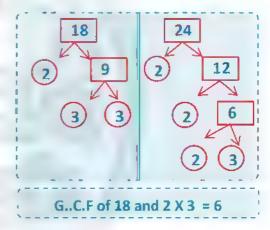
- 1- find the factor of each number
- 2- determine the common factors of these number
- 3- get the greatest factor of the common factor.
 - factors of 18: 1,2,3,6,9,18
 - \bullet factor of 24: 1,2,3,4, $\frac{6}{6}$,8,12,24
 - common factors: 1,2,3,6
 - the greatest common factor [GCF]: 6

Second way using prim factorization:

- 1- factorize each number to its prime factors.
- 2- find the common prime factor.
- 3- find the product of this prime factor.







Example Find the [GCF] of the given numbers:



8 and 16

12 and 18

G..C.F of 8 and 16 =

G..C.F of 12 and 18 =

24 and 32

G..C.F of 14 and 32 =

Exercise®

Find the [G.C.F] of the given numbers:

40 and 50

G.,C.F of 40 and 50 =

45 and 81

G..C.F of 45 and 81 =

12 and 18

① 15 and 25

G..C.F of 12 and 18 =

G..C.F of 15 and 25 =

1) Find the [G.C.F] of the given numbers :



15 and 20

2

45 and 30

G..C.F of 15 and 20 =

G..C.F of 45 and 30 =

(3)

21 and 42

24 and 36

G..C.F of 21 and 42 =

G..C.F of 24 and 36 =

(3)

16 and 18

20 and 35

G..C.F of 16 and 18 =

G..C.F of 20 and 35 =

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Lessons 6 - 7

Identify multiples Least common multiple (L.C.M)

Learn A multiple is the product of multiply the given number by other numbers

Zero is common multiple of all numbers

Ex: ① multiples of 2 are 0,2,4,6,8,10,12,14,16,18,20,..... and so on.

All even numbers are multiple of 2

② multiples of 3 are 0,3,6,9,12,15,18,21,24,27,30,..... and so on.

All numbers that the sum of its digit 3,6,9,12,15,18,.... are multiple of 3

③ multiples of 5 are 0,5,10,15,20,25,30,35,40,45,50,..... and so on.

All numbers that the ones digit is 0 or 5 are multiple of 5

Exercise List 4 multiple for each of the following

- 4 →
- ② 6 → ----
- 4 10 → · · · · ·

Learn A common multiple is a multiple of two or more numbers

Least common multiple [L.C.M] IS smallest multiple [other than 0]

Example (that two Or more numbers have in common.)

1st way

6 and 12

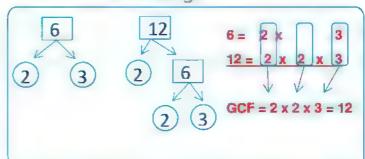
6 = 0, 6, 12, 18, 24, 30,

12 = 0 , 12 , 24 , 36 ,

Common multiples: 0, 12, 24,

G.C.F is: 12

2nd way

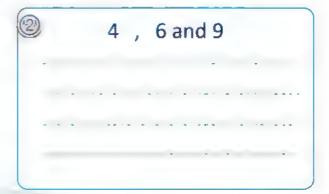


Drimory &

Mit Mins to Fa

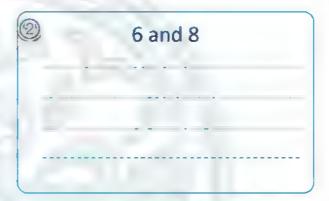
Example find (L.C.M) for each of the following:

② 2 and 3



Exercise find (L.C.M) for each of the following:

4 and 6



Exercise Choose the correct answer:

① which of the following is a multiple of 5?

[52 , 56 , 14 , 45]

②The number that is not multiple of 3 is

[3 , 21 , 13 , 36]

320 is multiple of

[3,6,8,10]

Which is a common multiple of 5 and 8

[20 , 40 , 35 , 45]

[6 , 10 , 30 , 60]

⑤The L.C.M of 2 and 5 is

[5,10,30,60]

⑤The L.C.M of 5 and 6 is

[6,10,30,60]

[24 , 45 , 48 , 80]

Home Work



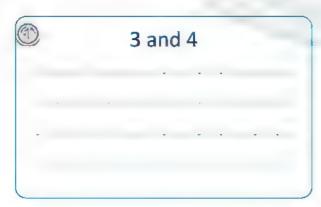
1) Choose the correct answer:

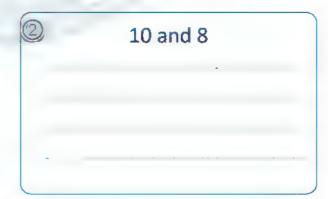
- ① The number that is multiple of 3 is [7, 16, 24, 46]
- ②The number that is not multiple of 3 is [3, 9, 23, 27]
- 30 is multiple of ... [3, 6, 10, all previous]
- 4Which is a least common multiple of 5 and 10 ... [10 , 15 , 20 , 50]
- ⑤ The L.C.M of 3 and 9 [3,6,9,18]
- ® The L.C.M of 4 and 6 [4, 6, 12, 24]

2 Complete:

- ① The common multiple of all numbers is
- ② All even numbers are multiple of
- 3 All numbers that the ones digit is 0 or 5 are multiple of
- ⑤.....is L. C. M of 3 and 5

3 Find (L.C.M) for each of the following:





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Learn

Factor Factor Multiple

3 and 5 are factors of 15 15 is multiples of 3 and 5

4 X 7 = 28 ↓ ↓ ↓ Factor Factor Multiple 4 and 7 are factors of 28 28 is multiples of 4 and 7

Example Complete the following:

- ① If 2X4 = 8, then 2 and 4 are a factors of
- ② If 3 X 7 = 21, then 21 is a multiple of
- 36 is a multiple of
- 46 is a factor of
- ⑤.....is a multiple of 8
- 6..... is a factor of 8

Exercise Choose Factor or Multiple to each of the following:

- ① 6 is a of 3
- ② 4 is a of 12
- ③ 15 is a of 3
- 4 24 is a of 8
- ⑤ 14 is a of 7
- 6 9 is a of 27
- 78 is a of 4
- ® 5 is a of 30
- 9 10 is a of 5
- 10 6 is a of 18

- [Factor or Multiple]

Relation between G.C.F and L.C.M

Example Find GCF and LCM for each of the following:

① 18 and 24

2

12 and 16

(3)

10 and 12

(1)

8 and 20

EXERCISE Find GCF and LCM for each of the following:

1

18 and 24





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(1) Choose the correct answer:

- ②The number 27 is not multiple of 3 is
- 330 is a factor of
- Which is L.C.M of 2 and 10 ...
- (5) The G.C.F of 3 and 9

- [3 , 12 , 24 , 60
 - [3, 9, 7, 27]
- [3,6,10,30]
- [10 , 15 , 20 , 50]
 - [3,6,9,18]

(2) Find GCF and LCM for each of the following:

1

6 and 8



12 and 18



15 and 12



9 and 36

Unit 3

Lesson 1

Using the area model to multiply

mi moscof-

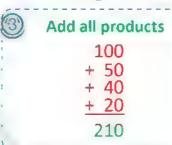
Learn

Area of rectangle = length x width A = LxW

We can use area of a rectangle to find 14×15 as following

1	5	10
10		
4		

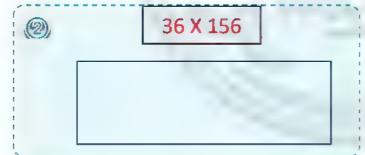
2	10	5
10	10X10=100	10X5= <mark>50</mark>
4	4X10= <mark>40</mark>	4X5=20



Example : Find the product of the following by using area model:

25 X 183	
1114 201	
The same	

Add all products



Add all products

(3),	1,407 X 8

Add all products

Exercise Find the product of the following by using area model:

12 X 18

Add all products

8 X 523

Add all products

209 X 17

Add all products

24 X 235

Add all products

52 X 853

Add all products

Home Work



① Find the product of the following by using area model:

12 x 25

572 x 93

1

201 x 32

7 x 462

1

37 x 25

(1)

13 x 125

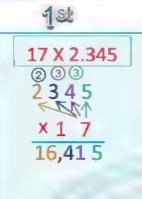


The Standard Multiplication

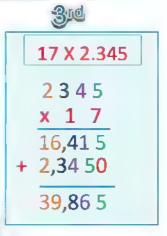
Multiplication problems in the real world

Learn

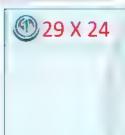
17 X 2,345





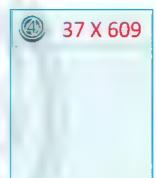


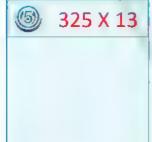
Example Find the product of the following

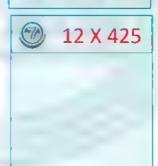




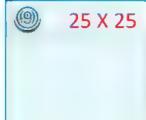


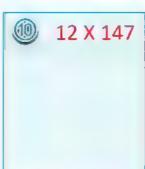


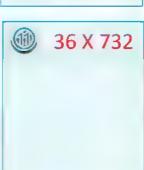














Exercise Find the product of the following



126 X 45

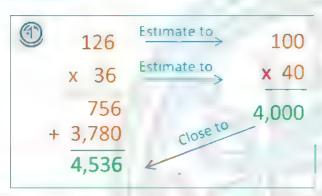


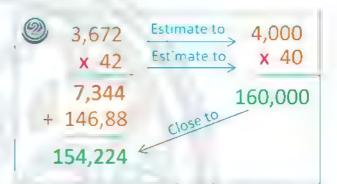
58 X 478



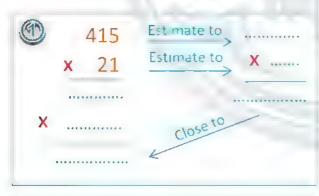
③ 7 X 2,305

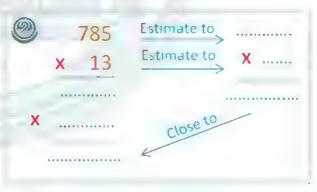
Learn **Estimating** product

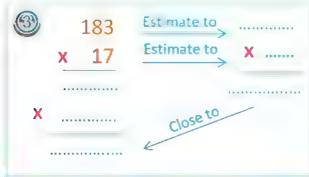


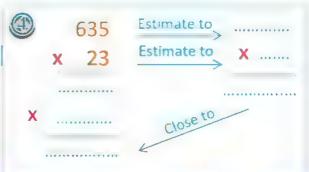


Exercise Use the estimate by round the greatest place value then find The actual product











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Multiplication problems in the real world

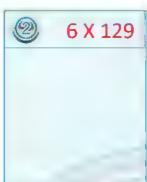
4 * *		-		• •	-
				**	
(2)Ahmed saved	1 123 pounds ,	, Logy save	d 12 times as	Ahmed,	
How much moi	ney logy saved	1?			
shirts in the se	eason costs 12	5 nounds	sweaters co.	st 270 nound	ls . Yara ai
	ought 12 shirt			-	

Home Work

1 : Find the product of the following

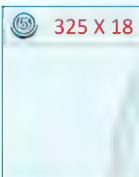










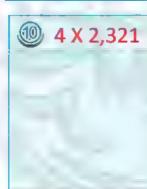
















(2) loucy saved 246 pounds, Linda saved 15 times as Loucy,

How much money Linda saved?



Lessons 1-2

Division by a two-digit number Estimating quotient

Remember

Dividend

$$17 \div 3 = 5$$

R 2

1

visor Quotient R

Remainder

Notes

- Always the remainder must be less than the divisor.
- •The dividend = divisor x quotient + remainder

Multiplying Facts

$$2 \times 4 = 8$$

 $20 \times 4 = 80$

 $200 \times 4 = 800$

 $2000 \times 4 = 8000$

Division Facts

$$8 \div 2 = 4$$

$$80 \div 2 = 40$$

$$800 \div 2 = 400$$

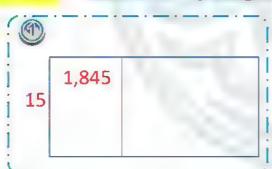
$$8000 \div 2 = 4000$$

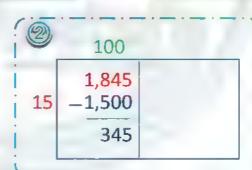
Learn Area model to divide

Notes

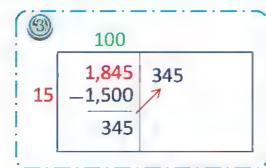
Divide: 1,845 ÷ 15 by using the area model

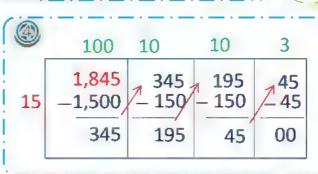
Area of rectangle = L X W





Notes 15x1 = 15 15x2=30 15x3=45 15x10=150 15x100=1500



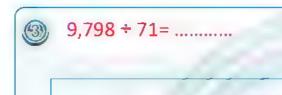


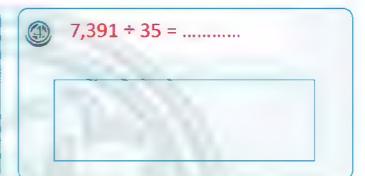
The quotient = 100 + 10 + 10 + 3 = 123

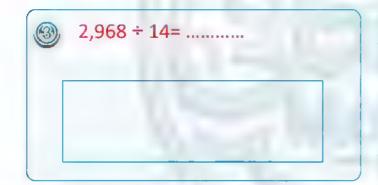
Example 1 Use the area model to solve:

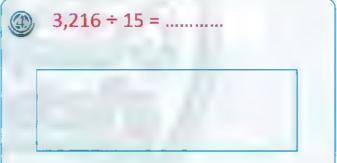


2 492 ÷ 4 =

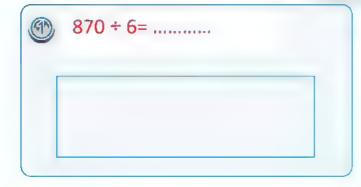








Exercise1





Learn

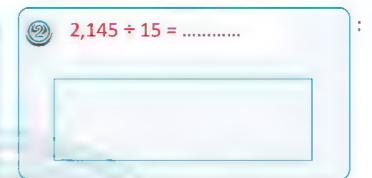
Estimating quotient

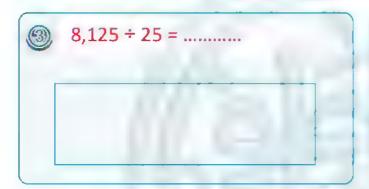
We use front end estimation

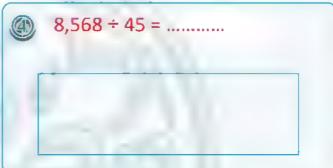
Example1 Estimate the quotient:

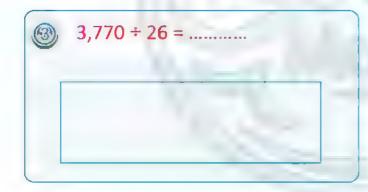
Exercise 1 Estimate the quotient:

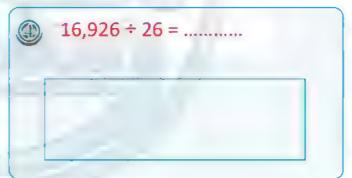
1) Use the area model to solve:



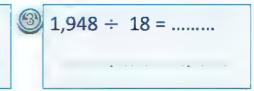








2 Estimate the quotient :





Standard algorithm to divide

Learn

MATH IDEA

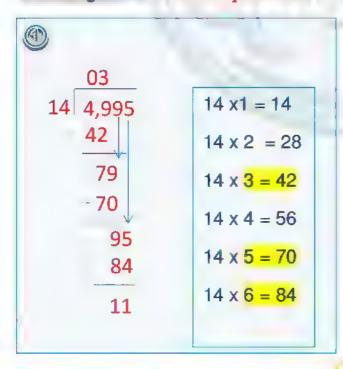
The order of division is as follows:

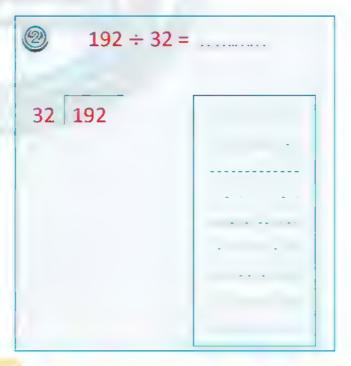
1)Divide

- 2 Multiply
- **3** Subtract
- (3) Bring down

Repeat this order until the division is complete.

Example 1 Find the quotient:







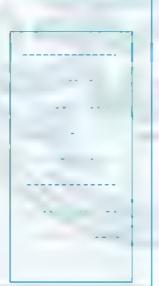
46 8,014



65 543



11 6,203



31 9,363



Exercise1 Find the quotient:

15 1,515

18 1,818

13 2,028

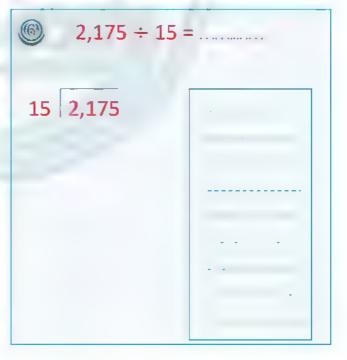


64 16,96



1 Find the quotient :

⑤ 6,040 ÷ 45	=
45 6,040	
	-
	•



Lesson 5

Standard algorithm to divide

36	ervings of a baklava , now many	trays will be needed to hold all the baklava?
		n Name
②if th	ne price of 16 books 560 pounds	s , find the price of each book ?
	All training	
⊚A pr	rimary school has 588 pupils , it	t wanted to distribute equally among 14 class
Hov	w many pupils in each class?	

Lessons 1-2

Multiplying by power of ten

Multiplying decimals by whole number

Learn

Multiplying by x 10, x 100 and x 1,000

To multiply by 10 move the point one place to right

To multiply by 100 move the point two places to right

To multiply by 1,000 move the point three places to right



- (1) 4 x 10 = 40
- $(2)712.5 \times 10 = 7,125$
- 3) 562.4 x 10 = 5,624
- $1) 4 \times 100 = 400$
- $(2)712.5 \times 100 = 71,250$
- $3 562.4 \times 100 = 56,240$
- $1 4 \times 1,000 = 4,000$
- $(2)712.5 \times 1,000 = 712,500$
- 3) 562.4 x 1,000 = 562,400

Example1 Complete:

- ① 23.14 x 10 =
- ② 7.125 x 10 =
- ③ 562.4 x 10 =
- ④ 0.002 x 10 =
- ⑤ 41.807 x 10 =.....

- ① 23.14 x 100 =
- ② 7.125 x 100 =
- ③ 562.4 x 100 =
- 4 0.002 x 100 =
- (5) 41.807 x 100 =.....

- ① 23.14 x 1000 =
- ② 7.125 x 1000 =
- ③ 562.4 x 1000 =
- 4 0.002 x 1000 =
- ⑤ 41.807 x 1000 =......

Exercise1 Complete:

- ① 14.6 x 10 =
- ② 56.71 x 10 =
- ③ 4.635 x 10 =
- 4 14.6 x 100 =
- ⑤ 56.71 x 100 =
- ⑥ 4.635 x 100 =
- 7 14.6 x 1000 =
- 8 56.71 x 1000 =
- 9 4.635 x 1000 =

Learn

Multiplying by x 0.1, x 0.01 and x 0.001



To multiply by 0.1 move the point one place to left

To multiply by 0.01 move the point two places to left

To multiply by 0.001 move the point three places to left

- (1) 4 x 0.1 = 0.4
- $(2)712.5 \times 0.1 = 71.25$
- 3) 562.4 x 0.1 = 56.24
- (1) 4 x 0.01 = 0.04
- $(2)712.5 \times 0.01 = 7.125$
- (3) 562.4 x 0.01 = 5.624
- $(2)712.5 \times 0.001 = 0.7125$
- 3) 562.4 x 0.001 = 0.5624

Example1 Complete:

- ① 23.14 x 0.1 =
- ② 7.125 x 0. 1 =
- ③ 562.4 x 0.1 =
- ④ 1.2 x 0.1 =
- ⑤ 4180.7 x 0.1

- ① 23.14 x 0.01 =
- ② 7.125 x 0.01 =
- ③ 562.4 x 0.01 =
- ④ 1.2 x 0.01 =
- ⑤ 4180.7 x 0.01 =......

- ① 23.14 x 0.001 =
- ② 7.125 x 0.001 =
- ③ 562.4 x 0.001 =
- 4 0.002 x 0.001 =
- (5) 418.07 x 0.001 =......

Exercise1 Complete:

- ① 14.6 x 0.1 =
- ② 56.71 x 0.1 =
- ③ 4.635 x 0.1 =
- 4 0.009 x 0.1 =
- ⑤ 20.02 x 0.1 =.....

- ① 14.6 x 0.01 =
- ② 56.71 x 0.01 =
- ③ 4.635 x 0.01 =
- 4 0.009 x 0.01 =
- ⑤ 20. 02 x 0.01 =......

- ① 14.6 x 0.001 =
- ② 56.71 x 0.001 =
- ③ 4.635 x 0.001 =
- ④ 0.009 x 0.001 =
- ⑤ 20.002 x 0.001 =......

Learn Multiplying decimals by whole number

If $3 \times 2 = 6$, then $3 \times 0.2 = 0.6$ (one decimal right of the point)

and $4 \times 6 = 24$, then $4 \times 0.6 = 2.4$ (one decimal right of the point)

and $5 \times 25 = 125$, then $5 \times 0.25 = 1.25$ (two decimal right of the point)

	214	2	1.4	2.14
×	7	×	7	× 7
1	,498	149	9.8	14.98

-	145			145		145
+ + : :	× 23	-	×	2.3	-	× 0.23
	3,335			333.5	7	33.35

Example 1 Answer the following:

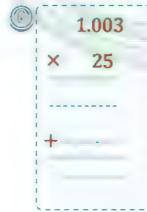


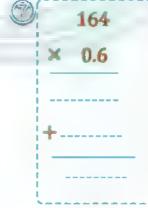








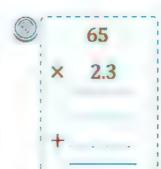






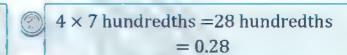
Exergise1 Answer the following:





Example2 Complete:

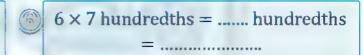
 3×2 hundredths = 6 hundredths = 0.06



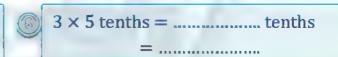
 $5 \times 9 \text{ tenths} = \dots \text{tenths}$ $= \dots \text{tenths}$



8 × 9 thousandths = thousandths =



 4×15 thousandths = thousandths =



Exercise2 Complete:

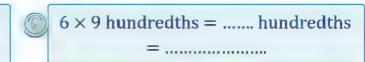
2 × 8 hundredths = hundredths =



6 × 7 tenths = tenths =



8 × 3 thousandths = thousandths =



1) Complete:

$$46 \times 0.471 = \dots$$

(1) Choose the correct answer:

①
$$7 \times 0.7 = \dots$$

③
$$5 \times 0.1 = \dots$$

$$\textcircled{4} 0.2 \times 10 = \dots$$

⑤
$$3 \times 0.6$$

$$\bigcirc$$
 5 x 25 tenths =

$$\$4 \times 4$$
 Thousandths =

$$924.3 \times 0.01 = \dots$$



Multiplying tenths by tenths Using the area model to multiply

Learn Multiplying tenths by tenths

one one two place
$$0.1 \times 0.1 = 0.01$$

one one two place place
$$1.2 \times 0.7 = 0.84$$

Example 1 Find the products:

$$\bigcirc 0.2 \times 0.3 = 0.06$$

$$31.2 \times 0.3 = 0.36$$

$$20.5 \times 0.2 = 0.10 = 0.1$$

$$42.4 \times 0.2 = 0.48$$

Example 2 Find the products:

$$\bigcirc 0.7 \times 0.3 = \dots$$

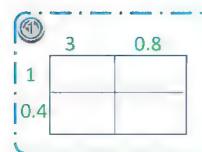
$$\bigcirc$$
21.5 x 0.7 =

Exercise1 Find the products:

$$\textcircled{1}0.5 \times 0.5 = \dots$$

Learn Using the area model to multiply decimals

How to evaluate 1.4 x 3.8?



	3	0.8
11	3	0.8
0.4	1.2	0.32

Example 1 Find the products:

Exercise 1 Find the products:

Example 2 Choose the correct answer:

① Since
$$9 \times 3 = 27$$
, then $0.9 \times 0.03 = \dots$ [27, 0.27, 0.27]

②Since
$$3 \times 15 = 45$$
, then $0.3 \times 1.5 = \dots$ [45 , 4.5 , 0.45 , 0.045]

③Since
$$7.5 \times 4.3 = 32.25$$
, then $75 \times 0.43 = ...$

4 If area model of a problem is

	3	0.2
4	X	0.8
0.7	2.1	У

then x + y =

4 If area model of a problem is

then
$$L + M = \dots$$

15.14 , 15 , 8.15

MIN STREET

1 Find the products:

② Find the products by using area model:



Multiplying decimals through the Hundredths and thousandths place



Ignore the decimal point

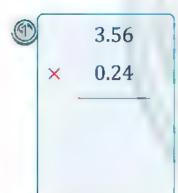


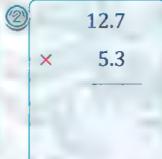
Multiply

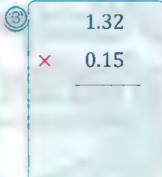


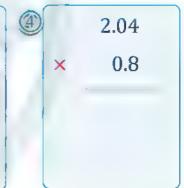
Place the decimal point

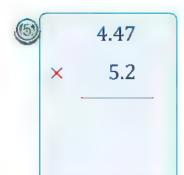
Example 1 Find the product:

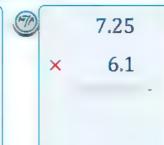
















40.7

3.2 X

62.4

1.5 X

7.14

2.1 ×

585

0.3 X

Example 2 Compare using [> , = , <]:

(1) 0.318×1.5 3.18×0.15

2

 0.214×38

 2.14×3.8

(3) 03.45×2.1 34.5×0.21

 0.045×3.6

 45×0.036

(5) 574×0.126 57.4×1.26

(6)

(1)

 74.2×3.5

 7.42×35

7 3.87×3.5 38.7×0.35

(8)

458 ×4.52

 45.8×4.52

 0.258×1.7 (9) 2.58×0.17

10

 714×1.5

 7.14×0.15

Exercise 1 Compare using [> , = , <]:

 0.528×1.5 5.28×0.15

2

 0.214×38

 2.14×3.8

(3) 03.05×2.4 30.5×0.24

4

 0.015×5.6

 15×0.56

(5) 521 ×8. 26 52.1×826 6

 369×3.5

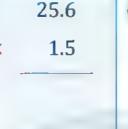
 36.9×35

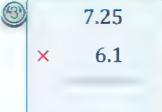
Home Work



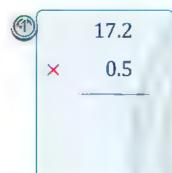
Find the products:





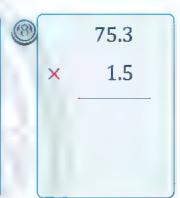












Compare using [> , = , <]

1	0.416 ×1.5	41.6 ×	0.15





|--|

$$315 \times 0.24$$

15 :	× 0.005



$$32.8 \times 3.5$$



$$32.8 \times 35$$

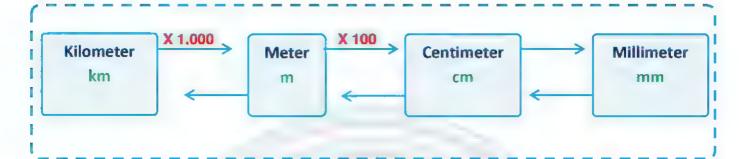


decimals and the metric system measurement decimals and power of ten

Learn

(3)

(3)



Example 1 Complete

X 100

9 7.54 m = ...754...... cm

X 0.1

14.16 mm = ...1.416..... cm

X 0.01

255.2 cm = ...2.552..... m

X 0.001

4,620 m =4.62......km

X 10

1.14 cm = ...11.4..... mm

4,620 km =4.62....m

X 1000

Exercise 1 Complete

③ 3.54 km = m

2

 $7.456 \text{ m} = \dots \text{cm}$

41.25 cm mm

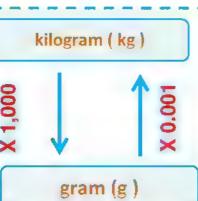
4,620 m =km

③ 45.4 cm = m

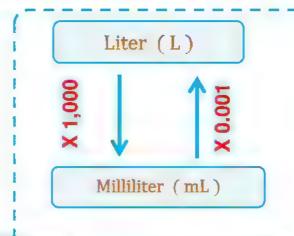
 $75.3 \text{ cm} = \dots \text{m}$



MI MOSCOFO A



Metric units of mass



Metric units of capacity

Example 2 Complete

1

(3)

(5)

X 1000

7.54 kg = ...7540...... g

X 1000

7.54 L = ...7540... ml

X 1000

2.425 kg = ...2,425......g

0.025 L = ...25... ml

X 1000

X 0.001

41.6 g = ...0.0416... kg

(6)

582 ml = ...0.528...... L

X 0.001

Exercise 2 Complete

① $0.5 \text{ kg} = \dots \text{g}$

2

 $0.25 L = \dots ml$

8.12 kg = g

7.3 L = ml

69 745.6 g = kg

6

 $75 \text{ ml} = \dots L$

418 g = kg

(8)

761.1 ml = L

Example 3 Complete

①
$$5.7 L =ml$$

③
$$3.02 \text{ kg} = \dots$$

$$\$140 \text{ g} = \dots \text{kg}$$

⑦
$$5 L - 3,200 ml =L$$

$$\textcircled{4}$$
 2.5 L =ml

$$6 317 \text{ kg} = \dots$$

$$815.6 \text{ kg} + 1,800 \text{ g} = \dots \text{kg}$$

Example 4 Put [> , = , <]

② 2,180 cm (

2.18 m

2

0.41 kg

416 g

3

0.005 L

5 ml

24 mm

0.24 cm

(5)

0.088 m

8.7 cm

6

7.1 L

715 ml

 $8\,\mathrm{g}$

0.08 kg

0.01 km

7 m



Home Work

MIN-MINISTER CONTRACTOR



1 Complete

- ① 0.43 L =ml
- ③ $14.1 \text{ kg} = \dots \text{g}$
- 5 2,647 g =kg
- \bigcirc 2,647 km = m
- $93 L + 243 ml = \dots L$

- ② $3,250 \text{ ml} = \dots L$
- 4 2.5 L =ml
- $60.048 \text{ kg} = \dots$

2 <u>Put</u> [> , = , <]

- ③ 3,450 cm 3.45 m
- 6
- 0.12 kg
- 120 g

- 63 mm
- 0.63 cm
- ◎ 0.042 m 4.2 cm ◎ 6.5 L 650 ml
- 9,421 g
 94.21 kg
 0.07 km
 7 m

Lesson 9

Solving multistep story problems

①dalia made a liter of sugar cans juice. she drank 320 ml, her father
drank 0.25 L, how much sugar can juice is remaining?
②Hoda is stride 0.72 meters, how far in meters will Hoda walk after
Talking 1000 stride?
③Samy bought 14.5 meters of clothes . the price of each meter
Is 3.5 pounds , what is the price of cloths ?
(4) sandy bought 450 ml of mango juice . her sister Martina drink 0.26 L .
What is the remaining quantity of the mango juice?

AND THE PERSON NAMED IN

Home Work



1 Answer the following

① Eman saved 12.3 pounds each week . how much money she saved
In 10 weeks?
**
②Amara went to the supermarket, she bought 1.5 kg of tomatoes, 875
Of peas, find the weight [in gram] of what Amara bought?
$\ensuremath{\mbox{3}}\xspace Amgad$ needs to drink about 4,230 ml of water every day , how many
Liters of water does he need?

Lessons 10-11

Dividing by power of ten patterns and relationships in powers

Learn

Dividing by ightharpoonup 100 and ightharpoonup 1000



To divide by 10 move the point one place to left

To divide by 100 move the point two places to left

To divide by 1000 move the point three places to left

$$(1)$$
 4 ÷ 10 = 0.4

$$(1)$$
 4 ÷ 100 = 0.04

$$(1)$$
 4 ÷ 1000 = 0.004

$$2712.5 \div 10 = 71.25$$

$$(2)712.5 \div 100 = 7.125$$

$$(2)712.5 \div 1000 = 0.7125$$

$$(3)$$
 562.4 ÷ 10 = 56.24

$$(3)$$
 562.4 ÷ 100 = 5.624

$$(3)$$
 562.4 + 1000 = 0.5624

Example 1 Complete:

Exercise1 Complete:



Multiplying by • 0.1 , • 0.01 and • 0.001

To multiply by 10 move the point one place to right

To multiply by 100 move the point two places to right

To multiply by 1,000 move the point three places to right



$$(1)$$
 4 ÷ 0.1 = 40

$$(1)$$
 4 ÷ 0.01 = 400

$$(1) \ 4 \div 0.001 = 4,000$$

$$2712.5 \div 0.1 = 7,125$$

$$2712.5 + 0.01 = 71,250$$

$$(2)712.5 \div 0.001 = 712,500$$

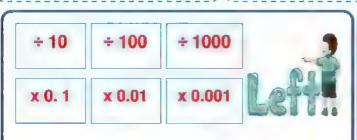
$$(3)$$
 562.4 ÷ 0.1 = 5,624

$$(3)$$
 562.4 ÷ 0.01 = 56,240

$$3 562.4 \div 0.001 = 562,400$$

Example1 Complete:

Exercise1 Complete:







Home Work

Mil Mins Lafe



Choose the correct answer:

$$\bigcirc 16.3 \times 100 = \dots$$

A- 0.063

B- 6300

C- 6.300

D- 630

$$(2)$$
 536 \times 0.01 =

A- 0.536

B-5.36

C-53.6

D-5.3600

$$(3)$$
 52 × 0.1

A- 52

B-5,200,000

C- 5.2

D- 0.052

$$4)305 \times 100$$

A-30,500

B-30.5000

C-305

D-3,050

Complete:-

 $(1) 0.4 \div 0.001 = \dots$

(2) 2.35 x 10 =

 $33.56 \times 100 = 33.56 \div \dots$

4 28.4 x = 0.284

(5) 3.4 m = km

(6) 712 ml = L

Answer:

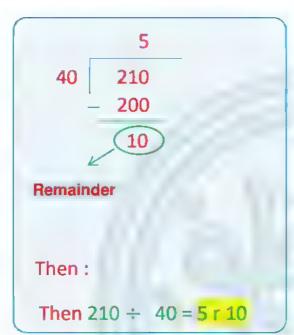
What is the height of 10 floors in a building? if the height of each floor 280 cm in meters?



Dividing decimals by whole numbers
 Dividing decimals by decimals

Learn Dividing decimals by whole numbers

How can you evaluate 210 ÷ 40 without remainder?



Example1 Divide:

50 155



25 131.5



5 | 128



40 3

Exercise 1 Divide:



25 151



14 | 333.2



3

Learn Infinite division

to the nearest hundredths

to the nearest thousandths

to the nearest tenths

Exercise2 Divide:



to the nearest hundredths



8 5



to the nearest tenths

Learn Dividing decimals by decimals

To divide by a decimal, writing the devisor as a whole number

Do this by multiplying the divisor and dividing by 10, 100 and 1000

According to the number of places of the decimal part of the divisor.

Example: Divide:

3 ÷
$$0.5 = ...$$

* 10 * 10

30 ÷ $5 = 6$

Exercise1 Divide:

Example2 Divide:

you may need to add a zero or More to the right of the dividend









Exercise 2 Find the quotient.

$$4 \cdot 1.12 \div 0.32 =$$

Home work

Complete:

1
$$3.6 \div 0.4 = \dots$$

$$27.2 \div 0.8 = \dots$$

$$0.33 \div 0.11 = \dots$$

$$40.28 \div 0.004 = \dots$$

Choose the correct answer:

1
$$80 \div 0.08 = \dots$$
 [A- 10 B- 100 C- 1000 D- 8000]

2
$$32.5 \div \dots = 100$$
 [A-3.25 B-0.0325 C-0.325 D-325]

4
$$1.6 \div 0.2 = \dots$$
 [A – 8

Find the quotient:-

1
$$15.64 \div 3.4 = \dots$$

Unit 6

Lessons 1-2

numerical expression

numerical expression with grouping symbols

Learn

Order of operation



$$3 + 0.2 \times 5$$
$$3 + 1.0 = 3$$

$$3 + 0.2 \times 5$$
$$3.2 \times 5 \Rightarrow 16$$

Which answer is the correct?

Salma's or Adam's



First

brackets
() or []

Second

Multiply or divide from the left $\times \ or \ \div$

Third

Addition or subtract from the left + or -

Example 1 Complete:

$$12 + (9-2) \times 8$$

Solution

$$= 12 + (9 - 2) \times 8$$
 bracktes first

$$= 12 + 7 \times 8$$
 multiply

$$= 12 + 56$$
 add

$$= 68$$

2
$$53 \times 2 + 54 \div 1.5$$

solution

$$= 53 \times 2 + 54 \div 1.5$$
 multiply, divide

$$= 106 + 36$$
 add

$$= 142$$

Use the order of operation to find.

 $10 \times 4 - 3$

 $3.6 \times (4+6) - 12$

5 $8 + (2.4 \div 0.4) \times 3$

 $215 \div 3 + 2$

 $4 + 4 \times 2 - 14$

 $6(30-4) \times 2 + 5$

Exercise 2 Choose the correct answer

1 the first operation to solve $88 - 14 \div 7 + 12 \times 33$ is

[A. subtract

B. divide C. add

D. multiply]

 $27.6 \div 0.2 + 3.3 \times 10 = \dots$

[A. 15.2

B. 54

C. 71

D. 266

3 $33 \div (2+9) \times 5 = \dots$

[A. 6

B. 7

C. 12

D. 15

 $4 \ 10 + 4 \times 6 - 24 = \dots$

[A. 14

B. 24

C. 10 D. 216

5 the second step to solve $9.3 \times 0.1 + 4.7 - 1.1$ is

[A. 9.3×0.1 B. 9.3×4.8 C. 0.93 + 4.7 D. 0.93 + 1.1]

Use the order of operation to find.

$$1150 \div 10 + 6 \times 1.5 - 5$$

$$38.4 \times (3.6 + 6.4) + 4$$

$$5 20 + [(4+2) \times 3]$$

$$240 - 10 \div 5$$

$$\mathbf{6} \ 3 + 3.3 \div \ 1.1 - 6$$

Choose the correct answer :-

- 1 the first operation to solve $12 + 20 \times 5 5$ is

- [A. subtract B. divide C. add D. multiply]

$$2 30 - 10 \times 3 + 6 = \dots$$

- [A. 26
- B. 6 C. 20 D. 30

- 3 $100 + 3.04 \times 100 = \dots$

 - [A. 404 B. 10,30 C. 304 D. 3.104

- $\mathbf{4} \ 9 6 + 3 \times 2 = \dots$
 - [A. 6 B. 3 C. 0 D. 9]

Art. Markette

Mil Mastafa

Lesson 3

Writing expression to represent scenarios

Example 1:

Add 22.7 and 35.3 then multiply the result by 3.

Solution: $(22.7 + 35.3) \times 3 = 58 \times 3 = 174$

Example 2:

subtract 3.1 from 4.62 then multiply the result by 2

Solution:

Example 3:

Divide 93 by 0.3 and then add 40 after that divide the result by 5

Solution:

Exercise

Writing expression then evaluate the expression:

1 add 7.4 and 2.3 then multiply the result by 10

Solution:

2 subtract 12.4 from 26.8 then divide the result by 100

Solution:

3 find the difference between 10 and 9.27, multiply by sum of 54 and 46

Solution:

4 add 32 to 25 and divide the result by 0.5

Solution:



Homwork



Writing expression then evaluate the expression:

- 1 difference between 42 and 37 then multiply the sum of 2 and 8
- 2 multiply 3.6 by 10 and add the result to 12.4
- **3** divide the sum of 34.8 and 65.2 by 5
- 4 add 64.2 to 12.6, then multiply the result by 10
- 5 add 18.7 to the result of dividing 45.6 by 10 then subtract the result from 99
- 6 subtract 13.2 from the sum of 23.6and 61.4
- 7 divide the sum of 3.8 and 5.2 by 3



Lesson 4

Idintifying numerical pattern

Learn look number pattern find the rule.

Think what should I do to 2 to get 5? what should I do to 5 to get 8?

2 5 8 11 14 The rule n+3

Example 1 Look at each table and determine the rule:

Input	Output	Input	Output	Input	Output	Input	Output
5	7	4	1	5	7	5	4
6	8	8	2	6	8	6	5
7	9	12	3	7	9	7	6
8	10	16	4	8	10	8	9
Pule :		Dulos		Dulo		Dulo	

Example 2 Write the rule for each pattern, and complete:

- 1 52, 44, 36, 28, 20, ...12......4..... Rule ...n 8

- \P If the input is 8 and the rule is n-3, then the output is
- **5** If the rule is $n\times 3$, and the output is 18, then the input is

Exercise 1 Look at each table and determine the rule:

Input	Output
5	20
6	24
7	28
*******	36

Input	Output
3	8
4	9
5	*****
******	11

Input	Output
9	6
12	
14	11
16	13
D. 1	

Input	Output
50	10
45	9
40	******
*******	6

Rule:

Rule:

Rule:

Rule:

Exercise 2 Write the rule for each pattern, and complete:

1 17,, 21, 23,

Rule

2, 8, 15,, 29,

Rule

3 3, 9, 27,,

Rule

4 1000, 100, 10,

Rule

Exercise 3 Complete:

- 1 The rule of the pattern: 3,7,11,15, is
- 2 The rule of the pattern: 3, 6, 12, 24, is
- **3** The rule of the pattern: 5,5.3,5.6,5.9,.... is
- 4 If the input is 7 and the rule is n+4, then the output is
- \bullet If the rule is n+4, and the output is 13, then the input is

Homwork

1 Look at each table and determine the rule:

Input	Output	Ir
2	5	
6	9	
10	13	
********	20	

Input	Output
3	6
5	10
7	*****
11	22

Input	Output
9	7
12	****
14	12
16	14

Input	Output
2	10
3	15
4	
******	30

Rule: ---

Rule:

Rule:

Rule: -----

Write the rule for each pattern, and complete:

1 19,, 13, 10,,

Rule

Rule

3 1,3,5,.....,...,....

Rule

4 5, 10, 115,,

Rule

3 Complete:

1 The rule of the pattern: 4,8,12,16, is

2 The rule of the pattern: 2,4,8,16,.... is

3 The rule of the pattern: 3, 3.6, 4.2, 4.8, is

4 If the input is 3 and the rule is n+4, then the output is

 \bullet If the rule is $n \div 4$, and the output is 12, then the input is

Al-Piostafa



My little dictionary



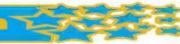
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